

1998
WORLD CONGRESS OF
MALACOLOGY
WASHINGTON DC



ABSTRACTS

EDITED BY
RÜDIGER BIELER & PAULA M. MIKKELSEN

SMITHSONIAN INSTITUTION, WASHINGTON, DC, 25-30 JULY 1998

13TH INTERNATIONAL CONGRESS, UNITAS MALACOLOGICA

64TH ANNUAL MEETING, AMERICAN MALACOLOGICAL UNION

31ST ANNUAL MEETING, WESTERN SOCIETY OF MALACOLOGISTS

TOGETHER WITH OTHER PARTICIPATING MALACOLOGICAL ORGANIZATIONS



1998 WORLD CONGRESS OF MALACOLOGY

SPONSORS:

Smithsonian Institution (Host Institution)

Unitas Malacologica (Rüdiger Bieler, President)

American Malacological Union (Robert Hershler, President)



Unitas Malacologica and AMU affiliated organizations:

Asociación Malacológica Argentina; Association of Systematics Collections; Comité para los Congresos Latinoamericanos de Malacología; Conchologists of America; Friedrich Held Gesellschaft; Greater St. Louis Shell Club, Inc.; Houston Conchology Society; Jacksonville Shell Club, Inc.; Jersey Cape Shell Club; King Leopold III Foundation; Malacological Society of Australasia Ltd.; Malakoloski Muzej; Marco Island Shell Club, Inc.; Molluscan Biodiversity Institute; Naples Shell Club; Naturmuseum Senckenberg; Nederlandse Malacologische Vereniging; Northern California Malacozoological Club; Pacific Northwest Shell Club; Palm Beach County Shell Club; San Diego Shell Club; Sanibel-Captiva Shell Club; Sea Shell Searchers of Brazoria County; St. Petersburg Shell Club, Inc.; Sociedad Malacológica de Chile; Sociedad Mexicana de Malacología; Sociedade Brasileira de Malacologia; Società Italiana di Malacologia; Société Française de Malacologie; Society for Experimental and Descriptive Malacology; Treasure Coast Shell Club, Inc.; The Western Society of Malacologists



SUBSTANTIAL SUPPORT ALSO PROVIDED BY:

American Museum of Natural History

Field Museum of Natural History

The Western Society of Malacologists (Sandra Millen, President)



FIELD MUSEUM

ABSTRACTS
OF THE
WORLD CONGRESS OF
MALACOLOGY

WASHINGTON, DC
25-30 JULY 1998



edited by
Rüdiger Bieler
Paula M. Mikkelsen

Chicago 1998

published on behalf of

UNITAS MALACOLOGICA
and the 1998 World Congress of Malacology Organizing Committee

in cooperation with the

AMERICAN MUSEUM OF NATURAL HISTORY (New York)

by the

FIELD MUSEUM OF NATURAL HISTORY
Roosevelt Road at Lake Shore Drive
Chicago, IL 60605 USA



© Unitas Malacologica, 1998

ISBN 0-914868-22-5

The content of chemical elements in the shells of certain bivalve mollusks

G. Y. Kirichuk

3-A, Manuilsky St., Apt. 14, Zhitomir, 262002, Ukraine

While investigating the poral apparatus of certain groups of Bivalvia, we found it necessary to study the chemical composition of their shells and mantles, in particular the epithelial projections of the latter. Under investigation was the chemical composition of shells of 12 freshwater and marine Bivalvia species: *Colletopterum piscinale falcatum*, *C. ponderosum rumanica*, *Anodonta zellensis michelli*, *A. cygnea*, *Unio rostratus*, *U. conus borysthenicus*, *U. tumidus falcatus*, *Solen vagina*, *Moerella tenuis*, *Ostrea edulis*, *Polittapes aurea*, and *Flexopecten ponticus*. It was established that it comprised 10 chemical elements: C, O, Al, Si, Cl, Ca, Cu, K, S, and P. Their percent-weight proportions are different in each species due to different quantitative and qualitative characteristics of their respective water bodies.

